ATTACHMENT J12

McGhee-Tyson ANGB Wastewater Collection System

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J12 McGhee-Tyson ANGB Wastewater Collection System

J12.1 McGhee-Tyson ANGB Overview

The McGhee-Tyson ANGB is located on McGhee-Tyson Airport in Alcoa, Tennessee and is approximately 13 miles south of Knoxville, Tennessee. The installation is home to the 134th Air Refueling Wing and consists of 358 acres. An adjacent twelve-acre parcel (included in this privatization effort) houses the 119th Tactical Control Squadron (GSU), Alcoa Air National Guard Station, and a Tennessee Army National Guard unit. The base is located on the northwest side of the airport with a total of 39 buildings: 22 industrial, 10 administrative, 3 dormitories, and 4 service buildings; totaling 651,000 square feet. Day-to-day activities are managed by a force of 823 full-time personnel. Two weekends per month the population increases to 1700 during military training assemblies. The 134th Air Refueling Wing flys KC-135E tankers and its mission is to train, equip, and maintain units and individuals to meet worldwide requirements for federal day-to-day and mobilization missions and state emergencies.

J12.2 Wastewater Collection System Description

J12.2.1 Wastewater Collection System Fixed Equipment Inventory

The McGhee-Tyson ANGB Wastewater Collection System consists of all appurtenances physically connected to the collection system from the point of demarcation defined by the Right of Way. The system may include, but is not limited to, pipelines, manholes,lift stations, and wells. The actual inventory of items sold will be in the bill of sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service charge adjustments based on the accuracy of the following description and inventory.

Specifically excluded from the Wastewater Collection System privatization are:

?? Oil Water Separators

?? Grease Traps

?? Septic Tanks, Leach Fields

?? Pre-Treatment Systems

J12.2.1.1 Description

McGhee-Tyson ANGB wastewater collection system consists of a combination of force main and gravity piping and is aided by two lift stations on the base. The system consists of approximately 14,700 linear feet of PVC piping, and 5500 linear feet of concrete pipe. Pipe diameters range from 4 to 12 inches. Pipes are buried between 4 and 15 feet deep with no marking tape or tracer wire used. There are 40 brick and 56 precast concrete manholes buried 6 to 8 feet in depth. The City of Alcoa provides wastewater treatment. Base personnel indicate the current capacity is adequate and sufficient to meet the planned expansion of base facilities.

J12.2.1.2 Inventory

Table 1 provides a general listing of the major Wastewater Collection System fixed assets for the McGhee-Tyson ANGB Wastewater Collection System included in the sale.

TABLE 1
Fixed Inventory
Wastewater Utility System McGhee-Tyson ANGB

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
PVC Pipe				
Force Main	4	4504	LF	1992
Gravity	8	355	LF	1977
Gravity	8	2066	LF	1981
Gravity	8	918	LF	1986
Gravity	8	325	LF	1988
Gravity	8	1148	LF	1989
Gravity	8	606	LF	1990
Gravity	8	1336	LF	1992
Gravity	8	531	LF	1994
Gravity	8	568	LF	1995
Gravity	8	392	LF	1999
Gravity	12	1949	LF	2000
Concrete				
	8	5083	LF	1953
	8	376	LF	1968
Standard Sanitary Sewer Manhole				

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
Brick with gunite interior in 1998	0-6 ft	38	EA	1951
Brick with gunite interior in 1998	0-6 ft	2	EA	1968
Precast concrete	0-6 ft	1	EA	1977
Precast concrete	0-6 ft	11	EA	1981
Precast concrete	0-6 ft	3	EA	1986
Precast concrete	0-6 ft	1	EA	1988
Precast concrete	0-6 ft	17	EA	1989
Precast concrete	0-6 ft	3	EA	1990
Precast concrete	0-6 ft	3	EA	1994
Precast concrete	0-6 ft	1	EA	1995
Precast concrete	6-8 ft	2	EA	1986
Precast concrete	6-8 ft	5	EA	1992
Precast concrete	6-8 ft	2	EA	1995
Precast concrete	6-8 ft	7	EA	2000
Wastewater Lift/Pump Station				
- LS #1 – Fiberglass well, 15 ft deep with cover	N/A	1	EA	1992
- LS #1 – 5hp, 1750 RPM pump	N/A	2	EA	1992
- LS #2 – Gorman Rupp, enclosure 7 ft x 10 ft, fiberglass, above ground on horizontal rails	N/A	1	EA	1992
- LS #2 - 5 hp, 1750 RPM pump	N/A	2	EA	1992
LS#2 Concrete Well, 8 ft x 16 ft deep	N/A	1	EA	1992
Notes: PVC = Polyvinyl Chloride LF = Linear Feet EA = Each In = inches LS = lift station Hp = horsepower RPM = revolutions per minute ACP = asbestos concrete pipe				

J12.2.2 Wastewater Collection System Non-Fixed Equipment and Specialized Tools

Table 2 lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment, vehic les, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2
Spare Parts
Wastewater Collection System McGhee-Tyson ANGB

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3
Specialized Vehicles and Tools
Wastewater Collection System McGhee-Tyson ANGB

Description	Quantity	Location	Maker
None			

J12.2.3 Wastewater Collection System Manuals, Drawings, and Records

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

TABLE 4
Manuals, Drawings, and Records
Wastewater Collection System McGhee-Tyson ANGB

Qty	Item Description	Remarks
1	Base Wide Sewer Utility Map	AutoCAD Release Version14

J12.3 Specific Service Requirements

The service requirements for the McGhee-Tyson ANGB Wastewater Collection System are as defined in the Section C Description/Specifications/Work Statement.

J12.4 Current Service Arrangement

?? Provider Name: City of Alcoa

?? Average Annual Usage: 18,915,000 gallons (October 1999 - September 2000)

?? Maximum Monthly Use: 2,119,000 gallons - April

?? Minimum Monthly Use: 1,007,000 gallons - December

?? Wastewater is billed based on 175% of the water bill

J12.5 Secondary Metering

The Contractor shall install and calibrate new secondary meters as listed in **Table 6**. New secondary meters shall be installed IAW Paragraph C.13, Transition Plan. After installation, the Contractor shall maintain and read these meters IAW Paragraphs C.3 and J12.6 below.

Table 5

New Secondary Meters
Water Distribution System McGhee-Tyson ANGB

Meter Location	Meter Description
None	

J12.6 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following:

1. Invoice (IAW G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to the person identified at time of contract award.
2. Outage Report. The Contractor's monthly outage report (blockage and overflow information) will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to the person identified at time of contract award.
3. Infiltration and Inflow Report. If required by Paragraph C.3, the Contractor shall submit an Infiltration and Inflow report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to the person identified at time of contract award.

J12.7 Infiltration and Inflow (I&I) Projects

IAW Paragraph C.3 Utility Service Requirement, the following projects have been implemented by the Government for managing and monitoring I&I: None.

J12.8 Service Area

IAW Paragraph C.4 Service Area, the service area is defined as all areas within the McGhee-Tyson ANGB boundaries.

J12.9 Off-Installation Sites

No off-installation sites are included in the sale of the McGhee-Tyson ANGB wastewater collection system. Note: A twelve acre parcel housing the 119th Tactical Control Squadron (GSU), Alcoa Air

National Guard Station and an Army National Guard unit is contiguous to the base and included in this solicitation.

J12.10 Specific Transition Requirements

IAW Paragraph C.13 Transition Plan, **Table 5** provides a listing of service connections and disconnections required upon transfer.

TABLE 6
Service Connections and Disconnections
Wastewater Collection System McGhee-Tyson ANGB

Location	Description
None	

J12.11 Government Recognized System Deficiencies

Table 6 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the McGhee-Tyson ANGB Wastewater Collection System. If the utility system is sold, the Government will not accomplish these planned improvements. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewals and Replacements Plan process and will be recovered through Schedule L-3. Renewal and replacement projects will be recovered through Sub-CLIN AB.

TABLE 7
System Deficiencies
Wastewater Collection System McGhee-Tyson ANGB

Project Location	Project Description
None	